**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Writing Equations of Lines in Slope-Intercept Form HW**

**Directions: Write the equation in slope-intercept form of the line that passes through each set of points.**

|  |  |
| --- | --- |
| 1. (9, 10) and (10, 11)  a. Find the slope using slope formula.  b. Pick ONE point. Substitute the x, y and m into y = mx + b and solve for b.  c. Write the equation:  y = \_\_\_\_\_\_\_x \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2. (8, -3) and (10, -5)  a. Find the slope using slope formula.  b. Pick ONE point. Substitute the x, y and m into y = mx + b and solve for b.  c. Write the equation:  y = \_\_\_\_\_\_\_x \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. (5, 6) and (7, 7)  a. Find the slope using slope formula.  b. Pick ONE point. Substitute the x, y and m into y = mx + b and solve for b.  c. Write the equation:  y = \_\_\_\_\_\_\_x \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4. (0, 0) and (-6, -12)  a. Find the slope using slope formula.  b. Pick ONE point. Substitute the x, y and m into y = mx + b and solve for b.  c. Write the equation:  y = \_\_\_\_\_\_\_x \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |